



Massachusetts Water Resources Authority  
2018 Drinking Water Test Results



# Your Drinking Water

This report contains very important information about your drinking water. Please translate it, or speak with someone who understands it.

Si usted desea obtener una copia de este reporte en español, llámenos al teléfono 617-788-1190.

La relazione contiene importanti informazioni sulla qualità dell'acqua della Comunità. Tra-durlo o parlarne con un amico che lo comprenda.

O relatório contém informações importantes sobre a qualidade da água da comunidade. Traduza-o ou peça a alguém que o ajude a entendê-lo melhor.

Sprawozdanie zawiera ważne informacje na temat jakości wody w Twojej miejscowości. Poproś kogoś o przełumaczenie go lub porozmawiaj z osobą która je dobrze rozumie.

يحتوي هذا التقرير على معلومات هامة عن نوعية مياه الشرب في منطقتك. يرجى ترجمته، أو ابحث التقرير مع سديق لك يفهم هذه المعلومات جيدا.

H katōvōn anavōra parousiazēi spoudaias pliroforēis gia to potimo vērō sas. Proxatōw na to metāpōsete ē va to oōlōasete me katōvōn pou to katavōlēvηi apōlētōw.

Im Bericht steht wichtige Information über die Qualität des Wassers Ihrer Gemeinschaft. Der Bericht soll übersetzt werden, oder sprechen Sie mit einem Freund, der ihn gut versteht.

这份报告中有些重要的信息，讲到关于您所在社区的水的品质。请您找人翻译一下，或者请能看得懂这份报告的朋友给您解释一下。

この資料には、あなたの飲料水についての大切な情報が書かれています。内容をよく理解するために、日本語に翻訳して読むか説明を受けてください。

इस रिपोर्ट में "पीने के पानी" के विषय पर बहुत जरूरी जानकारी दी गई है। कृपया इसका अनुवाद अनिवार्य या किसी जानकार से इस बारे में पूछिये।

ရေသောက်ရန်အရေးကြီးသော အချက်အလက်များကို ဤစာရွက်တွင် ဖော်ပြထားပါသည်။ အချက်အလက်များကို ဖော်ပြထားပါသည်။

이 보고서에는 귀하가 거주하는 지역의 수질에 관한 중요한 정보가 들어 있습니다. 이것을 번역하거나 충분히 이해하시는 친구와 상의하십시오.

Bản báo cáo có ghi những chi tiết quan trọng về phẩm chất nước trong cộng đồng quý vị. Hãy nhờ người thông dịch, hoặc hỏi một người bạn biết rõ về vấn đề này.



Massachusetts Water Resources Authority and the Winthrop Department of Public Works

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## Where To Go For Further Information

Massachusetts Water Resources Authority (MWRA)	<a href="http://www.mwra.com">www.mwra.com</a>	617-242-5323
Massachusetts Dept. of Environmental Protection	<a href="http://www.mass.gov/dep">www.mass.gov/dep</a>	617-292-5500
Massachusetts Dept. of Public Health (DPH)	<a href="http://www.mass.gov/dph">www.mass.gov/dph</a>	617-624-6000
Department of Conservation and Recreation	<a href="http://www.mass.gov/dcr/watersupply">www.mass.gov/dcr/watersupply</a>	617-626-1250
US Centers for Disease Control & Prevention (CDC)	<a href="http://www.cdc.gov">www.cdc.gov</a>	800-232-4636
List of State Certified Water Quality Testing Labs	<a href="http://www.mwra.com/testinglabs.html">www.mwra.com/testinglabs.html</a>	617-242-5323
Source Water Assessment and Protection Reports	<a href="http://www.mwra.com/sourcewater.html">www.mwra.com/sourcewater.html</a>	617-242-5323
Information on Water Conservation	<a href="http://www.mwra.com/conservation.html">www.mwra.com/conservation.html</a>	617-242-SAVE

## Public Meetings

MWRA Board of Directors	<a href="http://www.mwra.com/boardofdirectors.html">www.mwra.com/boardofdirectors.html</a>	617-788-1117
MWRA Advisory Board	<a href="http://www.mwraadvisoryboard.com">www.mwraadvisoryboard.com</a>	617-788-2050
Water Supply Citizens Advisory Committee	<a href="http://www.mwra.com/wscac.html">www.mwra.com/wscac.html</a>	413-213-0454

## For A Larger Print Version, Call 617-242-5323.

This report is required under the Federal Safe Drinking Water Act. MWRA PWS ID# 6000000





MWRA Board of Directors

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For more information  
on MWRA and its  
Board of Directors,  
visit [www.mwra.com](http://www.mwra.com).

Dear Customer,

I am pleased to share with you the annual results of our water quality testing. Each year, MWRA takes hundreds of thousands of tests to ensure your water is safe and of the highest quality. In 2018, we again met every federal and state drinking water standard.

Lead in drinking water is an important issue and we continue to make progress on reducing the risk by treating the water to make it less corrosive, and working with our member communities to identify and remove lead service lines. More information can be found on pages 4 and 5 of this report.

Your water system is well protected – from the source reservoirs to the treatment plants to the storage tanks – and real-time water quality monitoring allows us to check the water every step of the way. We also have emergency plans for all of our facilities so we can quickly respond to any issue any time of day or night.

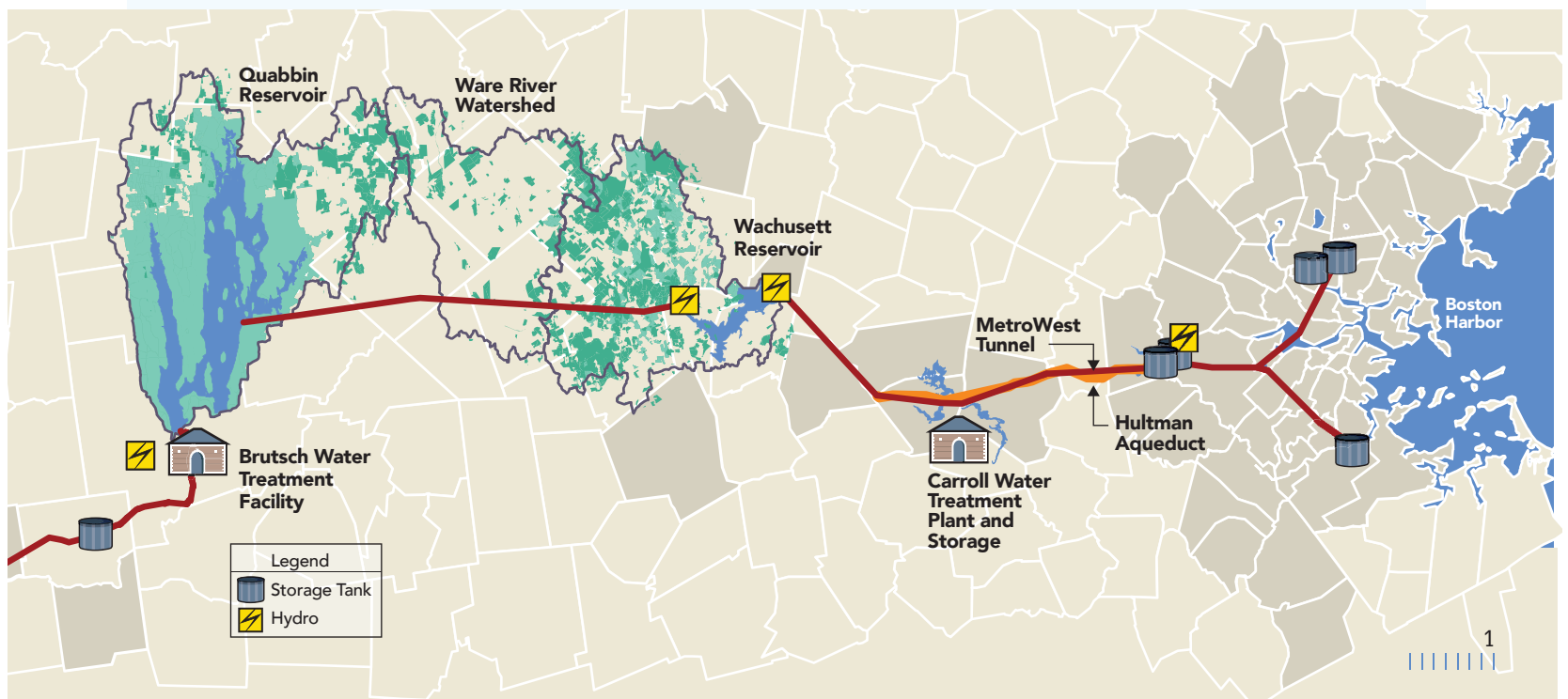
Our emergency planning also includes redundancy for every part of the water system. We are currently working on two large pipeline projects to the north and south that will allow us to re-route the water in the event of a break so that your service will not be interrupted. Also, we have begun the initial design phase for two new water tunnels that will allow us to make repairs to the existing system. You will be hearing more about this in the coming years as the project gets underway.

I hope you will take a few moments to read through this important report and learn more about your water system. We have great confidence in the water we deliver to your home and we want you to share that confidence. Please contact us if you have any questions about this report or any of MWRA’s programs.

Sincerely,

Frederick A. Laskey  
Executive Director

Cover photo: Old Stone Church, Wachusett Reservoir





## MWRA Takes Customer Concerns Seriously

Every call is investigated to ensure that there are no problems with the water supply. Most complaints are related to discolored water, which is usually related to local construction or hydrant use. If you have a question or concern, please call your local water department or MWRA at 617-242-5323.

## Why Your Water Tastes Great – High Quality Source Water

Your water comes from the Quabbin Reservoir, about 65 miles west of Boston, and the Wachusett Reservoir, about 35 miles west of Boston. Water from the Ware River can also add to the supply at times. These pristine reservoirs supply wholesale water to local water departments in 51 communities. The two reservoirs combined supplied about 200 million gallons a day of high-quality water to consumers in 2018.

The Quabbin and Wachusett watersheds are naturally protected with over 85% of the watersheds covered in forest and wetlands. To ensure safety, the streams and reservoirs are tested often and patrolled daily by the Department of Conservation and Recreation (DCR).

Rain and snow falling on the watersheds - protected land around the reservoirs - turn into streams that flow to the reservoirs. This water comes in contact with soil, rock, plants and other material as it follows its natural path to the reservoirs. While this process helps to clean the water, it can also dissolve and carry very small amounts of material, including radioactive material, into the reservoir. Minerals from soil and rock do not typically cause problems in the water. But water can also transport contaminants from human and animal activity. These can include bacteria and pathogens - some of which can cause illness. The test data in this report show that these contaminants are not a problem in your reservoirs' watersheds.

The Department of Environmental Protection (DEP) has prepared a Source Water Assessment Program report for the Quabbin and Wachusett Reservoirs. The DEP report commends DCR and MWRA on the existing source water protection

plans and states that our “watershed protection programs are very successful and greatly reduce the actual risk of contamination.” MWRA follows the report recommendations to maintain the pristine watershed areas.

## Testing Your Water – Every Step Of The Way

Test results show few contaminants are found in the reservoir water. The few that are found are in very small amounts that are well below EPA's standards.

Turbidity (or cloudiness of the water) is one measure of overall water quality. All water must be below 5 NTU (Nephelometric Turbidity Units) and water can only be above 1 NTU if it does not interfere with effective disinfection. Typical levels at the Wachusett Reservoir are 0.34 NTU. In 2018, turbidity was always below EPA's 5 NTU standard. It was also below the stricter Massachusetts standard of 1 NTU 99.99% of the time, with the highest level 2.9 NTU.

MWRA also tests reservoir water for pathogens such as fecal coliform, bacteria and the parasites *Cryptosporidium* and *Giardia* that can enter the water from animal or human waste. All test results were well within state and federal testing and treatment standards. For more information, please visit [www.mwra.com/ucmr/2018.html](http://www.mwra.com/ucmr/2018.html).

## Test Results – After Treatment

EPA and state regulations require many water quality tests after treatment to check the water you are drinking. MWRA conducts hundreds of thousands of tests per year on over 120 contaminants (a complete list is available on [www.mwra.com](http://www.mwra.com)). Details about 2018 test results are in the table below. The bottom line is the water quality is excellent.

## Test Results After Treatment

Compound	Units	(MCL) Highest Level Allowed	(We Found) Detected Level-Average	Range Of Detections	(MCLG) Ideal Goal	Violation	How It Gets In The Water
Barium	ppm	2	0.01	0.01-0.011	2	No	Common mineral in nature
Mono-Chloramine	ppm	4-MRDL	2.08	0-3.8	4-MRDLG	No	Water disinfectant
Fluoride	ppm	4	0.70	0.31-0.78	4	No	Additive for dental health
Nitrate^	ppm	10	0.09	0.05-0.09	10	No	Atmospheric deposition
Nitrite^	ppm	1	0.006	ND-0.006	1	No	Byproduct of water disinfection
Total Trihalomethanes	ppb	80	16.4	7.13-21.0	ns	No	Byproduct of water disinfection
Haloacetic Acids-5	ppb	60	16.7	3.5-22.3	ns	No	Byproduct of water disinfection
Total Coliform	%	5%	1.4% (Sept)	ND-1.4%	0	No	Naturally present in environment
Combined Radium*	pCi/L	5	1.76	ND-1.76	0	No	Erosion of natural mineral deposits

**KEY:** MCL=Maximum Contaminant Level. The highest level of a contaminant allowed in water. MCLs are set as close to the MCLGs as feasible using the best available technology. MCLG=Maximum Contaminant Level Goal. The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. MRDL=Maximum Residual Disinfectant Level. The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants. MRDLG=Maximum Residual Disinfectant Level Goal. The level of a drinking water disinfectant below which there is no known or expected health risk. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination. ppm=parts per million ppb=parts per billion ns=no standard ND=non detect ^=As required by DEP, the maximum result is reported for nitrate and nitrite, not the average. pCi/L=Picocuries/Liter \*Result from 2014



### Monitoring Water Quality In Real Time

Your water is monitored by a state-of-the-art system in real time —24 hours a day, seven days a week —to make sure it is free of contaminants. This allows MWRA to respond to changes in water quality almost immediately.

### Why Your Water Tastes Great – Water Treatment

The MWRA has invested in state-of-the-art treatment to make sure your water is clean, fresh, and tastes great. Part of the reason that the water tastes so good is MWRA’s advanced treatment at the John J. Carroll Water Treatment Plant in Marlborough. Since 2005, your water has been treated with ozone - produced by pure oxygen. Ozone ensures strong protection against microbes and viruses, improves water clarity and makes the water taste better. In 2014, we also started using ultraviolet (UV) disinfection, further improving the quality of water. UV light is essentially a more potent form of the natural disinfection from sunlight and ensures that any pathogens potentially in our reservoirs are rendered harmless.

In addition, fluoride is added to promote dental health and the water chemistry is adjusted to reduce corrosion of home plumbing. Last, we add mono-chloramine, a mild and long-lasting disinfectant combining chlorine and ammonia to protect the water as it travels through miles of pipelines to your home.

### Emergency Preparedness

To confidently deliver the high-quality water you expect, MWRA must be prepared for all situations.

MWRA and DCR staff are out in the watersheds every day walking the land, monitoring activities and protecting the source. Whether managing wildlife, rerouting road runoff away from the reservoir or regulating development activity, DCR’s biologists, engineers and planners are at work keeping the source water pristine.

MWRA continuously monitors water quality within the reservoir with monitoring buoys and underwater sampling stations at multiple locations with the ability to sample at multiple depths. If there were an accident in the reservoir, a pipeline, or in one of our communities, we are ready to respond with mobile disinfection units and pumps, a mobile laboratory and staff who have been trained and participate in drills.

Modern water systems rely on computers and

### Sodium Facts

Sodium in water contributes only a small fraction of a person’s overall sodium intake (less than 5%). MWRA tests for sodium monthly and the highest level found was 41.6 mg/L (about 8 mg per 8 oz. glass). This would be considered VERY LOW SODIUM by the Food and Drug Administration.



specialized control systems to operate efficiently. We have invested in cyber security systems to prevent disruption, and have backup operation centers in case our regular control center is non-operational or inaccessible.

Redundant pipelines and tunnels also allow inspection and maintenance of key facilities while ensuring uninterrupted service. We have just completed the Wachusett Aqueduct Pumping Station in Marlborough, which now provides a second way to get water to the treatment plant. We are also nearing completion of projects to provide redundant pipelines to the north and south of Boston. Design is underway to repair and improve the Weston Aqueduct Supply Main #3 in Weston, Waltham, Belmont, Arlington and Medford. Planning for two new tunnels north and south of Boston that will provide redundancy is now well underway.

### On-going Pipeline Rehabilitation

MWRA continues to rehabilitate and replace pipelines throughout the distribution system to improve both reliability and water quality. MWRA also provides zero-interest loans to customer communities for local pipeline projects. In 2018, \$43 million was loaned to communities for 25 projects for the replacement of older, unlined pipes with new cement-lined ductile iron water pipes or rehabilitation with cleaning and new cement lining.



### What Can I Do To Save Water? Always Use Water Wisely

We know that conservation works. Customers in the MWRA service area have reduced their average daily demand from 340 million gallons per day in 1980 to about 200 million gallons today. It is important that these conservation efforts continue – especially during dry periods.



Monitoring Buoy in Wachusett Reservoir



## Lead In Tap Water Continues To Be In The News

and you may have some concerns about the safety of your tap water. MWRA's water system has been below the Lead Action Level for over a decade. Of nearly 2,300 samples taken in the last 5 years, 98% were below this 15 ppb level.

## What You Need To Know About Lead In Tap Water

MWRA water is lead-free when it leaves the reservoirs. MWRA and local pipes that carry the water to your community are made mostly of iron and steel and do not add lead to the water. However, lead can get into tap water through pipes in your home, your service line if it is made of lead, lead solder used in plumbing, and some brass fixtures. Corrosion or wearing away of lead-based materials can add lead to tap water, especially if water sits for a long time in the pipes before it is used.

In 1996, MWRA began adding sodium carbonate and carbon dioxide to adjust the water's pH and buffering capacity. This change has made the water less corrosive, thereby reducing the leaching of lead into drinking water. Lead levels found in sample tests of tap water have dropped by about 90 percent since this treatment change.

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## MWRA Meets Lead Standard In 2018

Under EPA rules, each year MWRA and your local water department must test tap water in a sample of homes that are likely to have high lead levels. These are usually homes with lead service lines or lead solder. The EPA rule requires that 9 out of 10, or 90%, of the sampled homes must have lead levels below the Action Level of 15 parts per billion (ppb).

All 23 sampling rounds over the past 14 years have been below the EPA standard. Results for the 458 samples taken in September 2018 are shown in the table. Nine out of 10 houses were below 9.7 ppb, which is below the Action Level of 15 ppb.

**Three communities, Medford, Quincy and Winthrop, were above the Action Level for lead. Your community letter on page 7 will provide you with local results and more information.**

## Important Information From EPA About Lead

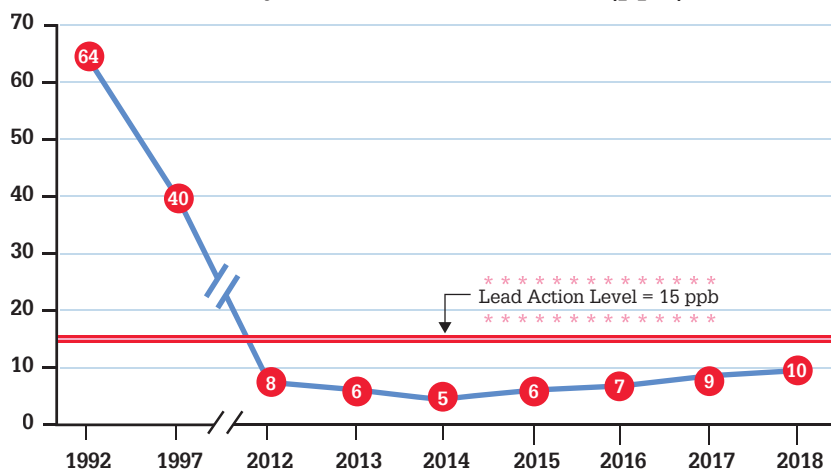
If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. MWRA is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. If your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 1-800-426-4791 or [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead).

Lead & Copper Results - September 2018

	Range	90% Value	(Target) Action Level	(Ideal Goal) MCLG	#Homes Above AL/ #Homes Tested
Lead (ppb)	0-601	9.7	15	0	20/458
Copper (ppm)	0-1.52	0.122	1.3	1.3	1/455

KEY: AL=Action Level-The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. Definition of MCLG available on page 3.

90% Lead Levels In MWRA System Of Fully Served Communities (ppb)





**Did You Know?**

Most cases of lead poisoning are from contact with peeling lead paint and lead paint dust. But drinking water exposed to lead can increase a person's total lead exposure. This is particularly a concern for infants or pregnant women.

**What Do I Do If I Have A Lead Service Line?  
What Is A Lead Service Line?  
What Is The Concern?**

A service line is the pipe that connects your house to the water main in the street. Some service lines that run from older homes (constructed before 1940) are made from lead. Many of these older service lines have been replaced, but some remain. These service lines are the main source of lead in tap water in homes that have them. Therefore, removing lead service lines is a priority to reduce the potential for lead exposure, particularly if a pregnant woman or child lives at your home.

**How Do I Replace My Lead Service Line?**

If you have a lead service line, you should consider replacing it. Many communities have programs to help with the replacement cost. Removing the whole lead service line is important. It is the only way to ensure that your service line will not be adding lead to your water. Partial

replacements - which leave some lead behind - do not lower lead levels and in many cases, can actually increase lead levels.

**MWRA Program To Replace Lead Service Lines**

To help communities in removing lead service lines, MWRA and its Advisory Board approved a program to make available \$100 million in zero-interest loans to its member communities to fully replace lead service lines. Under the program, each community can develop its own program, tailored to their local circumstances. So far, MWRA has distributed over \$10 million to nine communities. To find out more, please read your community letter or contact your local water department.

**How Do I Get My Home's Tap Water Tested For Lead?**

There is a list of labs and sampling instructions available on the lead testing page at [www.mwra.com](http://www.mwra.com) or you can call MWRA at 617-242-5323. Also, some communities have testing available for residents. Please contact your local water department for more information.



**Lead Testing In Schools**

Starting in 2016, MWRA, in coordination with DEP, provided no-cost lab analysis and technical assistance for schools and day care centers across all of MWRA's water communities. Almost all of MWRA communities have already participated in the program, and sampling is on-going. Nearly 34,000 tests have been completed from over 430 schools across 44 communities. Most of the results are available on the DEP website - [www.mass.gov/dep](http://www.mass.gov/dep) (search for lead in schools). Some results may also be available through your local community website, DPW or school department.

**HOW DO I TELL  
if I have a lead service line?**



○ You can identify a lead service line by carefully scratching it with a key.



○ Have it replaced with a new copper service line.

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For more information on lead service lines go to [www.mwra.com](http://www.mwra.com).



**WHAT CAN I DO  
to reduce my exposure  
to lead in drinking water?**

- Be careful of places you may find lead in or near your home. Paint, soil, dust and some pottery may contain lead.
- Let the water run before using it: fresh water is better than stale! To save water, fill a pitcher with fresh water and place in the refrigerator for future use.
- Any time water has gone unused for more than 6 hours, run each faucet used for drinking or cooking until after the water becomes cold.
- Never use hot water from the faucet for drinking or cooking, especially when making baby formula or other food for infants.
- Check your plumbing fixtures to see if they are lead-free. Read the labels closely.
- Remove loose lead solder and debris. Every few months remove the aerator from each faucet in your home and flush the pipes for 3-5 minutes.
- Call the Department of Public Health at 800-532-9571 or EPA at 800-424-LEAD for health information.





## Drink Local And Be Green!

Tap water is delivered straight to your home without trucking or plastic waste. Bottled water produces over 10,000 times the amount of greenhouse gases as tap water. More than half of our energy needs for water treatment and delivery are met with green power including hydroelectric generators and solar panels.

## Tests In Community Pipes

MWRA and local water departments test 300 to 500 water samples each week for total coliform bacteria. Total coliform bacteria can come from the intestines of warm-blooded animals, or can be found in soil, plants, or other places. Most of the time, they are not harmful. However, their presence could signal that harmful bacteria from fecal waste may be there as well. If total coliform is detected in more than 5% of samples in a month, the water system is required to investigate the possible source and fix any identified problems. If a water sample does test positive, we run more specific tests for *E.coli*, which is a bacteria found in human and animal fecal waste and may cause illness. If your community found any total coliform or *E.coli*, it will be listed within the community letter on page 7.

## Drinking Water And People With Weakened Immune Systems

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be

particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the EPA's Safe Drinking Water Hotline (1-800-426-4791).

## Contaminants In Bottled Water And Tap Water

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (1-800-426-4791) or MWRA. In order to ensure that tap water is safe to drink, the Massachusetts DEP and EPA prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration (FDA) and the Massachusetts Department of Public Health regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

## Research For New Regulations

MWRA has been working with EPA and other researchers to define new national drinking water standards by testing for unregulated contaminants. To read more about these regulations, and to see a listing of what was found in MWRA water, please visit [www.mwra.com/UCMR/2018](http://www.mwra.com/UCMR/2018).



## Cross Connection Information

Massachusetts DEP recommends the installation of backflow prevention devices for inside and outside hose connections to help protect the water in your home as well as the drinking water system in your town. For more information on cross connections, please call 617-242-5323 or visit [mwra.com/crosscon](http://mwra.com/crosscon).



## Watershed Protection

keeps the water supply clean and safe while providing open space. All of the trees and protected land in the Quabbin, Wachusett and Ware River watersheds act as a natural filter, and it is one of the reasons MWRA water has been rated as the best in the country. Since 1985, almost \$150 million has been invested in land protection.



Overlooking the Quabbin Reservoir



**Town of Winthrop**  
Department of Public Works  
100 Kennedy Drive, Winthrop, MA 02152

Public Water Supply  
# 3346000

**Dear Water Customer:**

The Winthrop Department of Public Works is pleased to provide this annual water quality report to keep you informed about our water distribution system.

**Our Distribution System**

The Town of Winthrop purchases all of its water directly from the MWRA. We are happy to have a partnership with the MWRA in our mission to supply some of the best quality water in the country. This water is delivered through a series of master meters and the pressure is regulated at the Town's pressure reducing station before being conveyed through the network of buried water mains and ultimately to your home or business.

**Meter Replacement Program**

In an effort to enhance meter reading productivity and customer service, Winthrop has converted to a radio read system and continues to work on a town-wide meter replacement project which is approximately 75% complete. This initiative will help reduce unaccounted for water and enhance customer support capabilities.

**Leak Detection**

The Town of Winthrop undergoes an annual leak detection survey to help locate leaks and to reduce unaccounted for water. This past year, the Town underwent two surveys. The two surveys discovered 4 service leaks and 2 moderate main line leaks. All leaks were promptly repaired.

**Backflow Protection**

The Town of Winthrop continues to enforce the DEP mandated cross connection control and prevention program to prevent contamination from entering our distribution system. In 2018, the department conducted 100 backflow prevention device tests town-wide.

**Hydrant Flushing Program**

The Water Division has continued our 15-phase unidirectional flushing program. This is a very important program that helps maintain water quality by removing naturally occurring sediments in the water mains that can cause taste, odor, and turbidity problems for consumers. This program also serves the community by exercising gate valves and inspecting and testing hydrants to assure adequate fire protection. Four phases of this program were completed in 2018.

**Water System Maintenance**

The DPW Water Division is responsible for operating and maintaining the Pressure Reducing Station, 46 miles of buried water main, a 1 Million Gallon capacity stand-pipe, 500 fire hydrants and the 4,500 service connections.

In 2018, the Water Division repaired 8 water main breaks and 101 full or partial lead services were relayed with copper, 16 by in-house staff and 85 as part of an MWRA funded water main replacement project called Contract 5 which started in September of 2017 and

was completed in July of 2018. This project also replaced approximately 3,000 feet of water main in excess of 75 years old. The division also replaced 15 fire hydrants and repaired 3 more.

**Lead in Your Water**

The Department of Public Works is committed to reducing the amount of lead in our water distribution system and is actively monitoring for excessive limits of lead and copper. This includes regular sampling of our water to preserve the quality. One of the testing protocols is for lead and copper, which occurs twice per year, once in March and once in September. In 2018, Winthrop met the lead and copper action level in the March sampling round at 7.53 ppb and 92.9 ppb, respectively, but exceeded the lead action level and met the copper action level in the September sampling round with results of 20.0 ppb and 102.0 ppb, respectively. The lead service lines that triggered the lead exceedance in the September round have been replaced with new copper. In addition to regular sampling, the Winthrop DPW has taken the following steps to address lead and copper:

- Has completely identified the remaining lead services and continues to update the database to account for converted services.
- Continued our program to remove 7% of the Town owned portion of the remaining lead services coupled with a program that offers homeowners an opportunity to replace the private portion of the service.
- Is committed to making lead line replacement a priority in planning and defining the scope for MWRA funded water main replacement projects.

Property owners with existing lead services who wish to participate in the lead removal program or want further details, are encouraged to call the DPW at 617-846-1341 or email [scalla@town.winthrop.ma.us](mailto:scalla@town.winthrop.ma.us). We urge owners of older homes and buildings to inspect their plumbing and, if possible, replace fittings that have lead joints or lead solder. We also encourage you to review the information contained in this report to take practical steps to reduce exposure to lead and other common contaminants.

**Total Coliform Tests in Community Pipes**

The Winthrop Water Department tests 12 samples twice per month for total coliform bacteria to monitor the distribution system. The EPA requires that no more than 5% of the samples in a month may be positive. Winthrop met this requirement in 2018 and only had 1 positive sample in August (3.7%).

We truly hope you find this report useful and informative. If you have further questions, feel free to contact the Winthrop DPW, the MWRA, or other contacts such as the DEP or EPA as listed herein.

Sincerely,

**Steven R. Calla**  
**Public Works Director / Water Superintendent**